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27975 7590 10/23/2007 ALLEN, DYER, DOPPELT, MILBRATH & GILCHRIST P.A. 1401 CITRUS CENTER 255 SOUTH ORANGE AVENUE			EXAMINER		
			NGUYEN, MINH CHAU		
P.O. BOX 3791 ORLANDO, FL 32802-3791 ART UNIT PAPER				PAPER NUMBER	
•			2145		
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Please find below and/or attached an Office communication concerning this application or proceeding.

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.**		Application No.	Applicant(s)	4
		10/779.402	MCCARTHY ET AL.	
	Office Action Summary	Examiner	Art Unit	
		MINH-CHAU NGUYEN	2145	•
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence address	,
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	ON. imely filed m the mailing date of this communicati IED (35 U.S.C. § 133).	,
Status				
2a)	Responsive to communication(s) filed on <u>13 F</u> . This action is FINAL . 2b) This Since this application is in condition for allowal closed in accordance with the practice under E	s action is non-final. nce except for formal matters, p		is
Dispositi	ion of Claims			
5)□ 6)⊠ 7)□	Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-21 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.		
Applicati	ion Papers			
10)⊠	The specification is objected to by the Examine The drawing(s) filed on 13 February 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The specific and the spec	e: a) \boxtimes accepted or b) \square object drawing(s) be held in abeyance. S tion is required if the drawing(s) is c	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121	(d).
Priority ι	under 35 U.S.C. § 119			
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureassee the attached detailed Office action for a list	es have been received. Is have been received in Applica rity documents have been receive u (PCT Rule 17.2(a)).	ition Noved in this National Stage	
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:	Date	

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Application/Control Number: 10/779,402

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1-7,9-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Albert et al. (Albert) (US 6,970,913B1).
- 2. Claim 1, Albert teaches a communications system comprising:

a plurality of servers (i.e. servers 1-3) connected together in a network (i.e. network 210) for processing a plurality of different job types (i.e. process incoming and outgoing packets) having respective different resource usage characteristics (i.e. usage of processing capacity) associated therewith (Col. 6, L. 51-55; and Col. 13, L. 60-65; and Col. 30, L. 14-31; and Col. 31, L. 53-59);

each server determining a respective health metric (i.e. level of load as a weight factor which is a number of connections being serviced by each server) thereof based upon at least one job being processed thereby and weighting the health metric (i.e. weight) based upon the respective resource usage

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characteristic of the at least one job (i.e. usage of processing capacity) (figure 14; and Col. 30, L. 1-31; and Col. 31, L. 53-59; and Col. 32, L. 49-51); and

a dispatcher (i.e. service manager 1140 in figure 11A) for collecting the weighted health metrics (i.e. weights) from said servers (i.e. servers 1-4) and distributing jobs to said servers based thereon (figure 14; and Col. 3, L. 59-Col. 4, L. 3; and Col. 30, L. 1-49; and Col. 31, L. 53-Col. 32, L. 19).

- 3. Claim 2, Albert teaches wherein the resource usage characteristics comprise at least one processing utilization characteristic and at least one input/output utilization characteristic (Col. 6, L. 51-55; and Col. 30, L. 14-31).
- 4. Claim 3, Albert teaches further comprising a knowledge base for cooperating with said dispatcher (i.e. service manager) for storing the weighted health metrics (i.e. weights) (Col. 31, L. 49-59).
- 5. Claim 4, Albert teaches wherein said servers map the weighted health metrics (i.e. weights) for different resource usage characteristics to a common scale (i.e. a common level) (Col. 3, L. 51-58; and Col. 30, L. 1-31, L. 61-Col. 31, L. 3).

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- 6. Claim 5, Albert teaches wherein said servers provide completed job results to said dispatcher (i.e. service manager), and wherein the weighted health metrics are provided to said dispatcher with the completed job results (i.e. "the feedback messages from the real machines is that the messages somehow express the level of load on the real machine as a result of handling connections", and "a process executed on a server for determining a weight to be sent to the service manager in a feedback message...Next, in a step 1206, the server determines the remaining processing capacity". From these quotation notes, it does teach the weights are sent to the service manager with the completed job/process results) (Col. 30, L. 1-31).
- 7. Claim 6, Albert teaches further comprising at least one load generator (i.e. load balance engine/algorithm) for generating the jobs for said servers and communicating the jobs to said dispatcher; and wherein said dispatcher further provides the completed job results to said at least one load generator (Col. 3, L. 59-Col. 4, L. 3; and Col. 8, L. 57-67; and Col. 9, L. 16-22; and Col. 11, L. 56-65; and Col. 12, L. 46-49; and Col. 30, L. 1-31).
- 8. Claim 7, Albert teaches wherein said dispatcher periodically polls said servers for the weighted health metrics (Col. 30, L. 43-52).

9. Claim 9, Albert teaches a load distributor for a plurality of servers (i.e. servers 1-3) connected together in a network (i.e. network 210) for processing a plurality of different job types (i.e. process incoming and outgoing packets) having respective different resource usage characteristics (i.e. usage of processing capacity) associated therewith (Col. 6, L. 51-55; and Col. 13, L. 60-65; and Col. 30, L. 14-31; and Col. 31, L. 53-59), and each server determining a respective health metric (i.e. level of load as a weight factor which is a number of connections being serviced by each server) thereof based upon at least one job being processed thereby and weighting the health metric (i.e. weight) based upon the respective resource usage characteristic of the at least one job (i.e. usage of processing capacity) (figure 14; and Col. 30, L. 1-31; and Col. 31, L. 53-59; and Col. 32, L. 49-51), the load distributor comprising:

a dispatcher (i.e. service manager 1140 in figure 11A) for collecting the weighted health metrics (i.e. weights) from the servers (i.e. servers 1-4) and distributing jobs to the servers based thereon (figure 14; and Col. 3, L. 59-Col. 4, L. 3; and Col. 30, L. 1-49; and Col. 31, L. 53-Col. 32, L. 19); and

a knowledge base for cooperating with said dispatcher (i.e. service manager) for storing the weighted health metrics (i.e. weights) (Col. 31, L. 49-59).

10. Claim 14, Albert teaches a job distribution method for a plurality of servers (i.e. servers 1-3) connected together in a network (i.e. network 210), the servers for processing a plurality of different job types (i.e. process incoming and outgoing packets) having respective different resource usage characteristics (i.e. usage of processing capacity) associated therewith (Col. 6, L. 51-55; and Col. 13, L. 60-65; and Col. 30, L. 14-31; and Col. 31, L. 53-59), the method comprising:

determining a respective health metric of each server (i.e. determining level of load as a weight factor which is a number of connections being serviced by each server) based upon at least one job being processed thereby and weighting the health metric (i.e. weight) based upon the respective resource usage characteristic of the at least one job (i.e. usage of processing capacity) (figure 14; and Col. 30, L. 1-31; and Col. 31, L. 53-59; and Col. 32, L. 49-51); and

distributing jobs to the servers based upon the weighted health metrics (figure 14; and Col. 3, L. 59-Col. 4, L. 3; and Col. 30, L. 1-49; and Col. 31, L. 53-Col. 32, L. 19).

11. Claim 16, Albert teaches further comprising mapping the weighted health metrics (i.e. weights) for different resource usage characteristics to a common scale (i.e. a common level) (Col. 3, L. 51-58; and Col. 30, L. 1-31, L. 61-Col. 31, L. 3); and wherein distributing jobs to the servers comprises distributing the jobs based

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upon the commonly scaled weighted health metrics (figure 14; and Col. 3, L. 51-Col. 4, L. 3; and Col. 30, L. 1-49, L. 61-Col. 31, L. 3, L. 53-Col. 32, L. 19).

- 12. Claims 10-13 are corresponding apparatus claims of system claims 2,4,5,7.

 Therefore, they are rejected under the same rationale.
- 13. Claim 15 is corresponding method claim of system claim 2. Therefore, it is rejected under the same rationale.
- 14. Claims 17-21 are corresponding computer-readable medium claims of apparatus claims 9-13. Therefore, they are rejected under the same rationale.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 15. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Albert as applied to claim 1 above, and further in view of Ross et al. (Ross) (US 6,263,212B1).

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16. Claim 8, Albert teaches the jobs relate to IP packet processing (Col. 6, L. 51-63; and Col. 7, L. 31-39).

Albert fails to teach the jobs relate to electronic mail (e-mail) processing. However, Ross, in the same field of endeavor having closely related objectivity, teaches the jobs relate to electronic mail (e-mail) processing (Col. 6, L. 1-10).

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated Ross's teachings of the jobs relate to electronic mail (e-mail) processing, in the teachings of Albert in load balancing using distributed forwarding agents with application based feedback for different virtual machines, for provide an advantage for generating load balancing for email processing.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MINH-CHAU NGUYEN whose telephone number is (571) 272-4242. The examiner can normally be reached on 7AM-3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JASON CARDONE can be reached on (571) 272-3933. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Examiner: Minh-chau Nguyen

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JAŠON CARDONE SUPERVISORY PATENT EXAMINER